REMARKS / ARGUMENTS

This Amendment and Response to Office Action is in response to the office action dated January 31, 2002, which rejected all of the presently pending claims. Applicants hereby cancel all of the presently pending claims and presents new claims 60-87 for examination. Applicants therefore submit that the statutory-type double patenting rejection of claims 1-59 is rendered moot and should therefore be withdrawn. Applicants further submit that new claims 60-87 are not drawn to cover identical subject matter as claims in the parent applications.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned **VERSION WITH MARKINGS TO SHOW CHANGES MADE.**

Because this document is filed more than four months after the mailing date of the Office Action (January 31, 2002), a Petition for Extension of Time – Two Months for a small entity and a check in the amount of $200 is filed herewith. This Amendment and Response cancels claims 1-59 (including independent claims 1, 24, 30, 48, 55, 56, 57 58 and 59) and adds new claims 60-87 (including independent claims 60, 63, 65, 67, 68, 72, 76, 79 and 84). Because no additional independent claims have been added, and the total number of claims has not increased, no claims fees are required by the filing of this document. In the event, however, that any fees are required to cover the cost of this filing, the Commissioner is authorized to charge those fees, or credit any overpayment, to Account No. 13-0480, Attorney Docket No. 95121961.114002.

If the Examiner has any questions regarding this Amendment and Response or the Application in general, the Examiner is invited to contact the Applicants' attorney at the below-listed telephone number.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

The amendments to the claims are illustrated below with underlined text representing what has been added and struck-out text representing what has been deleted.

In the Specification:

Claims 1-59 have been cancelled.

The following claims 60-87 have been added:

60. (New) A retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that a first additive primary color spectrum is transmitted from the retarder stack with a first polarization, and a complementary first subtractive primary color spectrum is transmitted from the retarder stack with a second orthogonal polarization.

61. (New) A retarder stack according to claim 60 wherein the first and second polarizations are orthogonal liner polarizations.

62. (New) A retarder stack according to claim 60 further comprising a source of at least partially polarized light.

63. (New) A light combining device comprising:

a beam combiner adapted to receive a first input beam comprising an additive primary color spectrum with a first polarization and a second input beam comprising a complementary subtractive primary color spectrum with a second polarization and combine these first and second input beams into an intermediate beam comprising the first and second input beams; and

a retarder stack adapted to receive the intermediate beam and transmit a beam of white light with an output polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the intermediate beam is transmitted from the retarder stack with the output polarization state, and the complementary subtractive primary color spectrum portion of the intermediate beam is also transmitted from the retarder stack with the output polarization state.

64. (New) A light combining device according to claim 63, further comprising:

a polarizing device adapted to receive the output beam and transmit a desired final polarization state.

65. (New) A light combining device comprising:

a beam combiner adapted to receive a first input beam comprising a first additive primary color spectrum with a first polarization and a second input beam comprising a second additive primary color spectrum with a second polarization and combine these first and second input beams into an intermediate beam comprising the first and second input beams; and

a retarder stack adapted to receive the intermediate beam and transmit an output beam with an output polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the intermediate beam is transmitted from the retarder stack with the output polarization state, and the second additive primary color spectrum portion of the intermediate beam is transmitted from the retarder stack with the output polarization state.

66. (New) A light combining device according to claim 65, further comprising:

a polarizing device adapted to receive the output beam and transmit a desired final polarization state.

67. (New) A light combining device comprising:

a first beam combiner adapted to receive a first input beam comprising a first additive primary color spectrum with a first polarization and a second input beam comprising a second additive primary color spectrum with a second polarization and combine these first and second input beams into a first intermediate beam comprising the first and second input beams;

a first retarder stack adapted to receive the first intermediate beam and transmit a second intermediate beam with an intermediate polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the first intermediate beam is transmitted from the retarder stack with the intermediate polarization state, and the second additive primary color spectrum portion of the first intermediate beam is also transmitted from the retarder stack with the intermediate polarization state;

a second beam combiner adapted to receive the second intermediate beam and a third input beam comprising a third additive primary color spectrum with a third polarization and combine these beams into a third intermediate beam comprising the second intermediate beam and the third input beam;

a second retarder stack adapted to receive the second intermediate beam and transmit an output beam of white light with an output polarization state, the retarder stack comprising at least

two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first, second and third additive primary color spectrum portions are transmitted from the retarder stack with the output polarization state.

68. (New) A display apparatus comprising:

a first light source adapted to provide a first input beam comprising an additive primary color spectrum with a first polarization;

a second light source adapted to provide a second input beam comprising a complementary subtractive primary color spectrum with a second polarization;

a beam combiner adapted to receive the first input beam and the second input beam and combine these beams into an intermediate beam comprising the first and second input beams; and

a retarder stack adapted to receive the intermediate beam and transmit a beam of white light with an output polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the intermediate beam is transmitted from the retarder stack with the output polarization state, and the complementary subtractive primary color spectrum portion of the intermediate beam is also transmitted from the retarder stack with the output polarization state.

69. (New) A display apparatus according to claim 68 further comprising:

a polarizing device adapted to receive the output beam and output a desired final polarization state.

70. (New) A display apparatus according to claim 68 wherein the first and second light sources are displays that generate image beams.

71. (New) A display apparatus according to claim 68 wherein the beam combiner comprises a polarizing beamsplitter and a dichroic mirror.

72. (New) A display apparatus comprising:

a first light source adapted to provide a first input beam comprising an additive primary color spectrum with a first polarization;

a second light source adapted to provide a second input beam comprising an additive primary color spectrum with a second polarization;

a beam combiner adapted to receive the first input beam and the second input beam and combine these beams into an intermediate beam comprising the first and second input beams;

a retarder stack adapted to receive the intermediate beam and transmit an output beam with an output polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the intermediate beam is transmitted from the retarder stack with the output polarization state, and the second additive primary color spectrum portion of the intermediate beam is also transmitted from the retarder stack with the output polarization state.

73. (New) A display apparatus according to claim 72 further comprising a polarizing device adapted to receive the output beam and output a desired final polarization state.

74. (New) A display apparatus according to claim 72 wherein the first and second light sources are displays that generate image beams.

75. (New) A display apparatus according to claim 72 wherein the beam combiner comprises a polarizing beamsplitter and a dichroic mirror.

76. (New) A display apparatus comprising:

a first light source adapted to provide a first input beam comprising a first additive primary color spectrum with a first polarization;

a second light source adapted to provide a second input beam comprising a second additive primary color spectrum with a second polarization;

a third light source adapted to provide a third input beam comprising a third additive primary color spectrum with a third polarization;

a first beam combiner adapted to receive the first input beam and the second input beam and combine these beams into an intermediate beam comprising the first and second input beams;

a first retarder stack adapted to receive the first intermediate beam and transmit a second intermediate beam with an intermediate polarization state, the first retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first additive primary color spectrum portion of the first intermediate beam is transmitted from the retarder stack with the intermediate polarization state, and the second additive primary

color spectrum portion of the first intermediate beam is also transmitted from the retarder stack with the intermediate polarization state;

a second beam combiner adapted to receive the second intermediate beam and the third input beam and combine these beams into a third intermediate beam comprising the second intermediate beam and the third input beam;

a second retarder stack adapted to receive the second intermediate beam and transmit an output beam of white light with an output polarization state, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that the first, second and third additive primary color spectrum portions are transmitted from the retarder stack with the output polarization state.

77. (New) A display apparatus according to claim 76 wherein the first, second and third light sources are displays that generate image beams.

78. (New) A display apparatus according to claim 76 wherein the first and second beam combiners comprise a polarizing beamsplitter and a dichroic mirror.

79. (New) A display apparatus comprising:

a first retarder stack adapted to receive a white light beam and transmit a first intermediate beam, the first retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that a first additive primary color spectrum portion of the first intermediate beam is transmitted from the retarder stack with a first

polarization and a complementary first subtractive primary color spectrum of the first intermediate beam is transmitted from the retarder stack with a second polarization,

a first beam splitter adapted to divide the first intermediate beam into a first output beam comprising the first additive primary color spectrum portion and a second intermediate beam comprising the complementary first subtractive primary color spectrum of the first intermediate beam;

a second retarder stack adapted to receive the second intermediate beam and transmit a third intermediate beam, the first retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that a second additive primary color spectrum portion of the third intermediate beam is transmitted from the retarder stack with a third polarization and a third additive primary color spectrum of the second intermediate beam is transmitted from the retarder stack with a fourth polarization;

a second beam splitter adapted to divide the third intermediate beam into a second output beam comprising the second additive primary color spectrum portion and a third output beam comprising the third additive primary color spectrum.

80. (New) A display apparatus according to claim 79 further comprising a polarizing device adapted to receive unpolarized white light and output a white light beam with an input polarization.

81. (New) A display apparatus according to claim 79 further comprising a white light source adapted to provide a white light beam.

82. (New) A display apparatus according to claim 79 wherein the white light beam depicts an image to be displayed.

83. (New) A display apparatus according to claim 79 wherein the first and second beam splitters comprise a polarizing beamsplitter and a dichroic mirror.

84. (New) A display apparatus comprising:

a retarder stack adatped to receive a white light beam and transmit an intermediate light beam, the retarder stack comprising at least two retarders, wherein a number, retardance and orientation of the retarders are selected so that a first additive primary color spectrum of the intermediate light beam is transmitted from the retarder stack with a first polarization, and a complementary first subtractive primary color spectrum is transmitted from the retarder stack with a second orthogonal polarization; and

a beam splitter adapted to divide the intermediate beam into a first output beam comprising the first additive primary color spectrum portion and a second output beam comprising the complementary first subtractive primary color spectrum of the intermediate beam.

85. (New) A display apparatus according to claim 84 further comprising a white light source adapted to provide a white light beam.

86. (New) A display apparatus according to claim 85 wherein the white light beam depicts an image to be displayed.

87. (New) A display apparatus according to claim 84 wherein the first and second polarizations are orthogonal linear polarizations.